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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/528,126	03/17/2000	Noriyoshi Satoh	32439	2947
116 PEARNE & GO	7590 10/22/200 ORDON LLP	EXAMINER		
1801 EAST 9TH STREET SUITE 1200 CLEVELAND, OH 44114-3108			CHAN, RICHARD	
			ART UNIT	PAPER NUMBER
			2618	
			MAIL DATE	DELIVERY MODE
			10/22/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

• •	Application No.	Applicant(s)				
	09/528,126	SATOH ET AL.				
Office Action Summary	Examiner	Art Unit				
·	Richard Chan	2618				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).				
Status	,					
1)⊠ Responsive to communication(s) filed on <u>27 Ju</u>	ıly 2007.					
• • •						
3) Since this application is in condition for allowar	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-9</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-9</u> is/are rejected.	Claim(s) <u>1-9</u> is/are rejected.					
	7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9) The specification is objected to by the Examine	ır.					
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	•					
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority under 35 U.S.C. § 119(a)-(d) or (f).				
1. Certified copies of the priority document	s have been received.					
2. Certified copies of the priority document	s have been received in Applicat	ion No				
3. Copies of the certified copies of the prior	rity documents have been receiv	ed in this National Stage				
application from the International Bureau						
* See the attached detailed Office action for a list	of the certified copies not receive	ed.				
Attachment(s)						
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summan Paper No(s)/Mail D					
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Informal I					

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-9 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jochheim (US 6,137,050) in view of Maldonado (US 5,852,421).

Regarding claims 1 and 5, Jochheim teaches a radio terminal device (fig. 1) having: a printed circuit board having a plurality of electronic components mounted thereon and having a front surface and a rear surface (fig. 1, element 7) and (Col.2 line 57-60); a resin housing covering the rear surface of the printed circuit board (element 5: Jochheim describes the process of making the covering is done with an injected mold, inherently a plastic or some sort of a resin); a metal housing covering the front surface of the printed circuit board (element 6 & col. 2, lines 13-16 and lines 60-67, specifically, a metal wire weave is injected into element 6);

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Jochheim fails to specifically disclose an internal antenna disposed on the rear surface of the printed board wherein at least a part of the printed circuit board, on which the antenna is disposed, is accommodated in the resin housing.

In related art, Maldonado teaches an internal antenna disposed on the rear surface of the printed circuit board wherein at least a part of the printed circuit board, on which the antenna is disposed, is accommodated in the resin housing (col. 7, lines 25-28).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include Moldanado's antenna means with Jochheim's existing radio receiver in order to improve the antenna coupler provided Maldonado and thereby increase RF reception and increase battery life and inherently talk time of the terminal as suggested by Maldonado.

Regarding claims 2 and 6, Jochheim teaches the resin housing and the metal housing are joined with each other by a curved line from a view point of the side of the radio terminal device (figures 1 and 2, element Y).

Regarding claims 3 and 7, Jochheim as modified by Maldonado further teaches the printed circuit board and the metal housing are connect with each other electrically (Maldonado, fig. 1b, & col. 4, lines 48-50).

Regarding claims 4 and 8, Jochheim fails to specifically disclose the antenna is disposed near an end portion in the remaining part of the printed circuit board. However, Maldonado does disclose the antenna is disposed near an end portion in the remaining part of the printed board (fig. 1b; col. 7, lines 25-28). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include Maldonado antenna means with Jochheim's existing radio receiver in order to increase RF reception.

Regarding claim 9, Jochheim as modified by Maldonado teach the antenna is accommodated in the resin house (Maldonado: col. 7, lines 25-28).

Conclusion

4. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard Chan whose telephone number is (571) 272-0570. The examiner can normally be reached on Mon - Fri (9AM - 5PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on (571)272-7882. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Richard Chan Art Division 2618 10/8/07

SUPERVISORY PATENT EXAMINER